

#11

Study	Year	Country	Sample size (n)	Prevalence (%)	95% CI
1	1998	USA	1000	1.2	0.5-2.1
2	2000	USA	2000	1.5	0.8-2.4
3	2001	USA	1500	1.8	1.0-3.0
4	2002	USA	1200	1.4	0.7-2.3
5	2003	USA	1800	1.6	0.9-2.6
6	2004	USA	1600	1.7	1.0-2.8
7	2005	USA	1400	1.5	0.8-2.4
8	2006	USA	1300	1.6	0.9-2.6
9	2007	USA	1100	1.4	0.7-2.3
10	2008	USA	1000	1.3	0.6-2.2
11	2009	USA	900	1.2	0.5-2.1
12	2010	USA	800	1.1	0.4-2.0
13	2011	USA	700	1.0	0.3-1.9
14	2012	USA	600	0.9	0.2-1.8
15	2013	USA	500	0.8	0.1-1.7
16	2014	USA	400	0.7	0.0-1.6
17	2015	USA	300	0.6	0.0-1.5
18	2016	USA	200	0.5	0.0-1.4
19	2017	USA	100	0.4	0.0-1.3
20	2018	USA	50	0.3	0.0-1.2
21	2019	USA	25	0.2	0.0-1.1
22	2020	USA	10	0.1	0.0-0.8
23	2021	USA	5	0.0	0.0-0.7
24	2022	USA	2	0.0	0.0-0.6
25	2023	USA	1	0.0	0.0-0.5
26	2024	USA	0	0.0	0.0-0.4
27	2025	USA	0	0.0	0.0-0.3
28	2026	USA	0	0.0	0.0-0.2
29	2027	USA	0	0.0	0.0-0.1
30	2028	USA	0	0.0	0.0-0.0
31	2029	USA	0	0.0	0.0-0.0
32	2030	USA	0	0.0	0.0-0.0
33	2031	USA	0	0.0	0.0-0.0
34	2032	USA	0	0.0	0.0-0.0
35	2033	USA	0	0.0	0.0-0.0
36	2034	USA	0	0.0	0.0-0.0
37	2035	USA	0	0.0	0.0-0.0
38	2036	USA	0	0.0	0.0-0.0
39	2037	USA	0	0.0	0.0-0.0
40	2038	USA	0	0.0	0.0-0.0
41	2039	USA	0	0.0	0.0-0.0
42	2040	USA	0	0.0	0.0-0.0
43	2041	USA	0	0.0	0.0-0.0
44	2042	USA	0	0.0	0.0-0.0
45	2043	USA	0	0.0	0.0-0.0
46	2044	USA	0	0.0	0.0-0.0
47	2045	USA	0	0.0	0.0-0.0
48	2046	USA	0	0.0	0.0-0.0
49	2047	USA	0	0.0	0.0-0.0
50	2048	USA	0	0.0	0.0-0.0
51	2049	USA	0	0.0	0.0-0.0
52	2050	USA	0	0.0	0.0-0.0
53	2051	USA	0	0.0	0.0-0.0
54	2052	USA	0	0.0	0.0-0.0
55	2053	USA	0	0.0	0.0-0.0
56	2054	USA	0	0.0	0.0-0.0
57	2055	USA	0	0.0	0.0-0.0
58	2056	USA	0	0.0	0.0-0.0
59	2057	USA	0	0.0	0.0-0.0
60	2058	USA	0	0.0	0.0-0.0
61	2059	USA	0	0.0	0.0-0.0
62	2060	USA	0	0.0	0.0-0.0
63	2061	USA	0	0.0	0.0-0.0
64	2062	USA	0	0.0	0.0-0.0
65	2063	USA	0	0.0	0.0-0.0
66	20				

Michael J. Heller
Eugene Tu
Glen A. Evans
Ronald G. Sosnowski

(ii) TITLE OF INVENTION: SELF-ADDRESSABLE
SELF-ASSEMBLING MICROELECTRONIC SYSTEMS AND
DEVICES FOR MOLECULAR BIOLOGICAL ANALYSIS
AND
DIAGNOSTICS

(iii) NUMBER OF SEQUENCES: 44

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon
(B) STREET: 633 West Fifth Street
(C) CITY: Los Angeles
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 90071

(v) COMPUTER READABLE FORM:

storage	(A) MEDIUM TYPE:	3.5" Diskette, 1.44 Mb
	(B) COMPUTER:	IBM Compatible
	(C) OPERATING SYSTEM:	IBM P.C. DOS (Version
	5.0)	
5.1)	(D) SOFTWARE:	WordPerfect (Version

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/271,882
(B) FILING DATE: July 7, 1994
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/146,504

(B) FILING DATE: November 1, 1993

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Murphy, David B.
(B) REGISTRATION NUMBER: 31,125

(C) REFERENCE/DOCKET NUMBER: 207/263

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (213) 489-1600
(B) TELEFAX: (213) 955-0440
(C) TELEX: 67-3510

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 24
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GCT AGC CCC TGC TCA TGA GTC TCU 24

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 24
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

AAA AAA AAA AAA AAA AAU 24

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 34
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

CTA CGT GGA CCT GGA GAG GAA GGA GAC TGC CTG U 34

207-263-4-10000

Variable	Mean	SD	Min	Max
Age	35.2	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	8	16
Income	15.2	5.5	5	30
Health status	0.8	0.4	0	1
Employment	0.9	0.3	0	1
Family size	3.2	1.5	1	6
Home ownership	0.6	0.5	0	1
Auto ownership	0.7	0.5	0	1
Life satisfaction	4.5	1.2	1	7
Health satisfaction	5.2	1.5	1	7
Financial satisfaction	4.8	1.8	1	7
Relationship satisfaction	5.5	1.0	1	7
Community satisfaction	4.2	1.5	1	7
Overall life satisfaction	4.8	1.2	1	7

acid

```
(A) LENGTH:                20
(B) TYPE:                   nucleic
                             single
(C) STRANDEDNESS:          single
(D) TOPOLOGY:              linear
```

GAG TTC AGC AAA TTT GGA GU

20

(2) INFORMATION FOR SEQ ID NO: 5:

acid

```
(A) LENGTH:                20
(B) TYPE:                   nucleic
                             acid
(C) STRANDEDNESS:          single
(D) TOPOLOGY:              linear
```

CGT AGA ACT CCT CAT CTC CU

20

(2) INFORMATION FOR SEQ ID NO: 6:

acid

(A) LENGTH:	18
(B) TYPE:	nucleic
(C) STRANDEDNESS:	single
(D) TOPOLOGY:	linear

GTC TCC TTC CTC TCC AGU

18

(2) INFORMATION FOR SEQ ID NO: 7:

acid

```
(A) LENGTH:                20
(B) TYPE:                   nucleic

(C) STRANDEDNESS:          single
(D) TOPOLOGY:              linear
```

20

(i) SEQUENCE CHARACTERISTICS:

acid

CTG GAG AAG AAG GAG ACU 18

(i) SEQUENCE CHARACTERISTICS:

acid

TTC CAC AGA CTT AGA TTT GAC U 22

(i) SEQUENCE CHARACTERISTICS:

acid

TTC CGC AGA TTT AGA AGA TU 20

(2) INFORMATION FOR SEQ ID NO: 11:

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

acid

TGT TTG CCT GTT CTC AGA CU 20

(i) SEQUENCE CHARACTERISTICS:

acid

CAT CGC TGT GAC AAA ACA TU 20

(i) SEQUENCE CHARACTERISTICS:

acid

TGC GAG CTG CAG TCA GAC AT 20

(i) SEQUENCE CHARACTERISTICS:

acid

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GAG AGA CTC ATG AGC AGG

18

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	18
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

CCT GCT CAT GAG TCT CTC

18

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	19
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

TTT TTT TTT TTT TTT TTT T

19

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	33
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CAG GCA GTC TCC TTC CTC TCC AGG TCC ACG TAG

33

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                19
          (B) TYPE:                  nucleic
          (C) STRANDEDNESS:          single
          (D) TOPOLOGY:              linear

```

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

(2) INFORMATION FOR SEQ ID NO: 19:

```

acid      (A) LENGTH:                19
          (B) TYPE:                 nucleic
          (C) STRANDEDNESS:         single
          (D) TOPOLOGY:            linear

```

GGA GAT GAG GAG TTC TAC G 19

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                17.
          (B) TYPE:                  nucleic
          (C) STRANDEDNESS:          single
          (D) TOPOLOGY:              linear

```

CTG GAG AGG AAG GAG AC 17

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                19
          (B) TYPE:                  nucleic
          (C) STRANDEDNESS:          single
          (D) TOPOLOGY:              linear

```

19

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                17
          (B) TYPE:                 nucleic
          (C) STRANDEDNESS:         single
          (D) TOPOLOGY:            linear

```

17

(i) SEQUENCE CHARACTERISTICS:

```

      (A) LENGTH:                21
      (B) TYPE:                  nucleic
acid
      (C) STRANDEDNESS:          single
      (D) TOPOLOGY:              linear

```

21

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                19
          (B) TYPE:                  nucleic
          (C) STRANDEDNESS:          single
          (D) TOPOLOGY:              linear

```

19

(i) SEQUENCE CHARACTERISTICS:

GGT GGT GGG CGC CGT CGG TGT GGG CAA GAU

30

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	15
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

CC GCG GCC GCC ACA C

15

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	15
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

CC GCG GCA GCC ACA C

15

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

acid	(A) LENGTH:	15
	(B) TYPE:	nucleic
	(C) STRANDEDNESS:	single
	(D) TOPOLOGY:	linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

CC GTG GCA GCC ACA C

15

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 30
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GGT GGT GGG CGC CGG CGG TGT GGG CAA GAU 30

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 29
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

GGT GGT GGG CGC CGG CGG TGT GGG CAA GA 29

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 22
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

TGC CCA CAC CGC CGG CGC CCA C 22

(2) INFORMATION FOR SEQ ID NO: 35:

(i) SEQUENCE CHARACTERISTICS:

acid (A) LENGTH: 22
(B) TYPE: nucleic
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

TOP SECRET-47027660

22

(i) SEQUENCE CHARACTERISTICS:

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

(2) INFORMATION FOR SEQ ID NO: 37:

(i) SEQUENCE CHARACTERISTICS:

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

(2) INFORMATION FOR SEQ ID NO: 38:

(i) SEQUENCE CHARACTERISTICS:

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

(2) INFORMATION FOR SEQ ID NO: 39:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31

[illegible]

CCA GTC ACG ACG TTG TAA AAC GAC GGC CAG U 31

(i) SEQUENCE CHARACTERISTICS:

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

GTA ATC ATG GTC ATA GCT GTT TCC TGT GTG U 31

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                40
          (B) TYPE:                  nucleic
          (C) STRANDEDNESS:          single
          (D) TOPOLOGY:              linear

```

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GCA TGC CTG CAG GTC GAC TCT AGA GGA TCC CCG GGT ACC G 40

(i) SEQUENCE CHARACTERISTICS:

```

acid      (A) LENGTH:                40
          (B) TYPE:                 nucleic
          (C) STRANDEDNESS:         single
          (D) TOPOLOGY:             linear

```

(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

TGC CAA GCT TGG CTG CAG GTC GAC GGA TCC CCG GGA ATT C 40

[illegible]

acid

```
(A) LENGTH:                24
(B) TYPE:                   nucleic
(C) STRANDEDNESS:          single
(D) TOPOLOGY:              linear
```

AAA TTG TTA TCC GCT CAC AAT TGC

24

(i) SEQUENCE CHARACTERISTICS:

acid

```
(A) LENGTH:                24
(B) TYPE:                   nucleic
(C) STRANDEDNESS:           single
(D) TOPOLOGY:               linear
```

ACA CAA CAT ACG AGC CGG AAG CAT

24